CONFIDENTIAL CLIENT COMMUNICATION

Korean Patent Application No. 10-2006-7009261

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ENGLISH TRANSLTION OF CITED REFERENCE

1. Cited Reference 1

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(54) APPARATUS FOR COOLING INTEGRATED CIRCUIT USING	
THERMOELECTRIC ELEMENT	

[ABSTRACT]

The present invention relates to an apparatus for cooling integrated circuit, and particularly, an apparatus for cooling an integrated circuit using a thermoelectric element.

An apparatus for cooling an integrated circuit using a thermoelectric element comprises a heat sink to perform a function of radiating the heat generated from the integrated circuit to the outside, a thermoelectric element to perform a function of cooling the heat generated from the integrated circuit by using a thermoelectric effect, a temperature detecting unit to perform a function of measuring the temperature of the integrated circuit, and a control unit to operate the thermoelectric element when the temperature is higher than a predetermined upper limit and to stop the thermoelectric element when the temperature of the integrated circuit becomes lower than a predetermined lower limit, by using the temperature of the integrated circuit inputted from the temperature detecting unit.

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[REPRESENTATIVE CLAIMS]

- 1. An apparatus for cooling an integrated circuit using a thermoelectric element, comprising:
- a heat sink to perform a function of radiating the heat generated from the integrated circuit to the outside;
- a thermoelectric element to perform a function of cooling the heat generated from the integrated circuit by using a thermoelectric effect;
- a temperature detecting unit to perform a function of measuring the temperature of the integrated circuit; and
- a control unit to operate the thermoelectric element when the temperature is higher than a predetermined upper limit and to stop the thermoelectric element when the temperature of the integrated circuit becomes lower than a predetermined lower limit, by using the temperature of the integrated circuit inputted from the temperature detecting unit.